SBR No : 00007
Date : 17.7.2018

1st & final Bill

Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

No. A/S 07

SR No
Date

Date:

**Division:** Electrical (DASARAHALLY) EE(Elec) 07

Sub- Division:

**Bill Received** No.....Dated.....Cash Book Voucher No.....dated.....

**Scheduled Docket**

**Name of Work (as per sanctioned estimate )** Maintenance and repair to electrical installation in parks gardens playgrounds and burial grounds current works.

**Contractor and Full Address:** m/S Sri Lakshmi Varadaraja Electrical Stores

**Work Order No**: : EE/(Elec)/DZ/WO/0000019/2017-18

Dated :12-02-2018

Reference to Agreement Date .....

Job No:- 013-17-000039

Certified that the measurements were taken by me on 9/5/2018 and recorded of pages 51274 to 758 of Measurement Book No 5128 (17) and that the work is satisfactorily executed.

Sri Lakshmi Varadaraja Electrical Stores

Contractor

Officer in charge of work
JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

Certified that the measurements were taken by me on..... The work is satisfactorily executed.

Certified that the quantities of materials shown in columns 3 of Account II have been actually brought to Site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in the connection with item for finished work have been agreed upon. And normal agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

81) Total value of work done or supplies as per account within
82) Deduct amount to be held in reserve being .....percent Rs.....
83) "
84) Deduct payment :
gg) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D.No.....
Amount adjusted towards cash advance recovery of
hh) Payments cost store or other material supplied.
Now made recovery amount creditable to this/ other work
Amount paid on this bill cheque/cash
85) Balance being unpaid value of work done held in reserve
6) Deduct cash advance made on the Office Cash Book Voucher No..... dated.....less adjustments
7) Net amount due to or from contractor

**Unadjusted items**

8) Advance to contractor for materials brought to site (as detailed) within Value of Government materials supplied

Balance

Sub-Division Officer
ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

| | |
|---|---|
| Bill Amt | 1267080 |
| IT @ | 12675 |
| LWC @ | 12675 |
| CRF @ | 1267 |
| Fine | 1273 |
| TD | 27890 |
| Net | 1239190 |

Sri Lakshmi Varadaraja Electrical Stores

Contractors Signature

Received Rs.....(in words)

.....

by cash and adjustment of payment as per memorandum.

Witnesses :

1.

2.

Dated .....Signature of Contractor

Paid by me by cheque No.....Dated.....

Cash Rs.....Dated.....

**Initials of Officer making payment**

Sri Lakshmi Varadaraja Electrical Stores

Audited and admitted for Rs. 1267080/-

(For use in the office)

Passed by Cheque for Rs. 1239190

(Rupees Twelve lakh thirty nine thousand one hundred & ninety only)

by adjustment Rs. 27890/-

Executive Engineer (Ele)

Accounts Superintendent Exe. Engineer (E

B.B.M.P. Dasarahalli Division

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| Sl. No | Description of Item<br>Name Of Work:-Maintenance and repair to electrical installation in parks gardens playgrounds and burial grounds current works. | Unit |
|---|---|---|
| 1 | Fabricating, supplying and erecting stepped / welded tubular pole of height 3.5 Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M. S. Base plate of size 150 mm X 150 mmX 6mm thick welded at the bottom of the pole. 32mm dia GI/flexible PVC pipe of 1 mtr length fitted to the existing Polycarbonate box. control box 1 No. of 4 way connector in case of cable looping. The pole shall be erected in cement concrete of (1:3:6) including excavation and refilling and (1:2:4) coping. (Top 0.5 Mtr. X 2" dia, Middle 1 mtr., X 2.5" dia, Bottom 2 mtr., X 3" dia) | Each |
| 2 | LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with ..... W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility | Each |
| 3 | Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A. 3 X 25 + 1 X 25 + 1 X 16 SQ MM | Each |
| 4 | Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR | Per Mtr |
| 5 | Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanished, steel wire/steel tape armoured cable with PVC outer sheating 1.1 KV class.I. Class 'A' PVC Cable. 4 core 16 sqmm | Per Mtr |
| 6 | 3.5 core 25 sqmm | Per Mtr |
| 7 | Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm | Per Mtr |
| 8 | b)25sqmm to 75 sqmm | Per Mtr |
| 9 | Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete. (As perCivil SR KSRB I-2, P-7).a) In soil (ordinary) | Per Mtr |
| 10 | Supplying High pressure Sodium Vapour street light luminaire 250Watts suitable for use with high pressure Sodium Vapour lamp with integrated control gear & grey color power coated. The fitting shall be non corrosive pressure die cast aluminum housing with high purity anodized aluminum reflector with EPDM Gaskets suitable for Outer Dia of pole 40mm - 60mm. Cable Entry through a cable gland with toggle clips. IP65 Protection for both optical & Electrical Compartment. Bottom cover may be with Poly carbonate/tempered/ toughened glass. Luminaire efficiency should be >60% & ambient temperature > 35 deg C. High Intensity Discharge Electro Magnetic Ballast with Copper winding of Orthocyclic winding coil. Class H insulated dual coated copper wire. Compliance to IEC 61347-2-9 Safety & IEC 60923 - Performance. Winding Temperature for HID Ballast Tw = 130 deg C & temperature rise ?T = 70 deg C. Luminaire shall be suitable to operate on 230/250 Volts finish including wiring, suitable to operate on 230/250 Volts 50 Hz AC supply finish including wiring, ignitor, condenser. SS Toggles for opening front hingeable glass. | Each |
| 11 | Supplying & fixing of 32 mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 or rail or RCC pole/wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires complete. Using 32mm dia G.I pipe | Each |
| 12 | Supplay and Fixing of Mechanical Timer Group A | No |
| 13 | Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps | Each |
| 14 | Supplying and fixing miniature circuit breakes on exisiting MCB distribution boards using necessary fixing materials and wiring complete as required. b) 40-63Amps SPN. Group 'A' | Each |

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| Previous Measurement | | Present Measurement | | | Total Upto Date | | Remarks |
|---|---|---|---|---|---|---|---|
| Qty | Cost | Qty | Rate | Amount | Qty | Cost | |
| | | 20 | 3000.00 | 60000.00 | 20 | 60000.00 | |
| | | 80 | 4100.00 | 328000.00 | 80 | 328000.00 | |
| | | 197 | 150.00 | 29550.00 | 197 | 29550.00 | |
| | | 197 | 10.00 | 1970.00 | 197 | 1970.00 | |
| | | 991 | 100.00 | 99100.00 | 991 | 99100.00 | |
| | | 250 | 125.00 | 31250.00 | 250 | 31250.00 | |
| | | 991 | 10.00 | 9910.00 | 991 | 9910.00 | |
| | | 250 | 10.00 | 2500.00 | 250 | 2500.00 | |
| | | 700 | 100.00 | 70000.00 | 700 | 70000.00 | |
| | | 30 | 4000.00 | 120000.00 | 30 | 120000.00 | |
| | | 110 | 750.00 | 82500.00 | 110 | 82500.00 | |
| | | 10 | 3750.00 | 37500.00 | 10 | 37500.00 | |
| | | 10 | 6000.00 | 60000.00 | 10 | 60000.00 | |
| | | 20 | 500.00 | 10000.00 | 20 | 10000.00 | |

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| | | | |
|---|---|---|---|
| 15 | Open Conduit Systeme: Supplying heavy gauge PVC condit pips..... dia confirming to IS 2509 with suitable size bends,junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall stone structure or plug incase of brick walls and cement plastering damaged portionusing heavy gauge saddle interval of 700mm using NF screws.c)32mm dia 2.5mm thick | | |
| 16 | Wiring for lighing/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm | | |
| 17 | Supplying and fixing of Procelain fuse channel with cut out on exisiting wooden/panel using necessary nuts, bolts and washers etc., complete.d) 100 Amps | | |
| 18 | Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. c) 65mm | | |
| 19 | Fabricating supplying and mounting MS box made out... SWG suitable llor floor/wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size cdlamps with mecessary cable entry pipe with gland and box should be finished with 2 cdoats of red oxide primer paint and finally finished with approved colour enameled metal pain etc., complete. 16/16 swg | | |
| 20 | Supplying..... amps rated 3phase with neutral bus bar using requiemed capacity electrolytic aluminium strip covered with heat shrinkable couloured PVC sleeve, mounted on phenolic/FRP/DMC insulator which are mounted on powder coated 40x6mm M.S. flat frame work in existing panel board. The bus bar shall gave suitable holes for termination of incoming and outgoing cables as per IS specification with necessary botls, nuts and washers etc., complete.b)250Amps 4X30X10mm Alluminium Strips | | |
| 21 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm | | |
| 22 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of overload and short circuit with thermal Magnetic Microprocessed release and earth fault as per IS-13947(1cu=1cs). Four Pole. 100Amps 25kA. | | |
| 23 | Supplying and running of GI/Copper strips for grounding connections, using necessary fixing materials as required. B) Copper Strip. B)25X3mm | | |
| 24 | Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm | | |
| | **Total Rs** | | |

25. GST As Per Tender Quoted Amount Rs

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

JUNIOR ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike

ASST. EXECUTIVE ENGINEER (Ele)
Bruhath Bangalore Mahanagara Palike
Dasarahalli Zone, Bangalore

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| | | | | | | |
|---|---|---|---|---|---|---|
| | | 100 | 33.00 | 3300.00 | 100 | 3300.00 |
| | | 100 | 15.00 | 1500.00 | 100 | 1500.00 |
| | | 30 | 300.00 | 9000.00 | 30 | 9000.00 |
| | | 15 | 350.00 | 5250.00 | 15 | 5250.00 |
| | | 250000 | 0.30 | 75000.00 | 250000 | 75000.00 |
| | | 0 | 200.00 | 0.00 | 0 | 0.00 |
| | | 50 | 15.00 | 750.00 | 50 | 750.00 |
| | | 10 | 3000.00 | 30000.00 | 10 | 30000.00 |
| | | 0 | 75.00 | 0.00 | 0 | 0.00 |
| | | 0 | 15.00 | 0.00 | 0 | 0.00 |
| | | | | 1067080.00 | | **1067080.00** |
| | | | | 2,00000-00 | | 2,09000-00 |
| | | | | 1267080 | | 1,267080-00 |

J By.

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